

El Mustang

CALIFORNIA STATE POLYTECHNIC COLLEGE

VOL. 14, NO. 30

SAN LUIS OBISPO, CALIFORNIA

FRIDAY, AUGUST 8, 1954

Poly Doubles Its Distaff Instructors

In further preparation for a fall quarter enrollment of some 2,700 at all-traffic California State Polytechnic college, Cal Poly's president Julian A. McPhee announced today the appointment of three more new English instructors.

Each, he pointed out, was selected to fit into Cal Poly's practical-pointed English program which serves not only liberal arts but engineering and agriculture majors. A large percentage of Cal Poly's students take work in report writing and similar fields of non-fundamentals.

The new English instructors include: Sydney Ralph Bobb, Stanford; Donald K. Adams, Caulfield, B. C.; and Edward John Lautner, Norwalk, Ohio.

Bobb, who has his Ph. D. degree from Stanford, spent almost four years with the army as a technician, then served on the faculties of Washington State college and Stanford.

Adams, who has his Ph. D. from Northwestern University, Evanston, Ill., has had experience as an accountant and statistician, is the former editor of "Western Miner" and "British Columbia Professional Engineering" magazines. He has served on the faculties at the University of British Columbia, Northwestern and the University of Southern California, and was winner of the Klein Memorial Scholarship at the Canadian school.

Lautner, who has been on the English and speech faculties at Sterling (Kansas) college and Upper Iowa University, Fayette, Iowa, has degrees from Ohio's Bowling Green State university and the University of Nebraska with additional work at the University of Michigan and Western Reserve, Cleveland.

For several years, the English department has had Cal Poly's only woman faculty member, Miss Kna Marston. This fall, Miss Virginia Wilson of Los Angeles and Bette Barbara, whose appointment as an announced, will double the college's distaff instructors.

Enrollment Shows Sharp Increase; Vets Sign Up To Beat Deadline Date

Attendance for the six-week term of the 1954-55 summer quarter showed a marked increase over that of last year with a total of 473 students in school.

This total figure breaks down into 34 new, 49 graduate and 380 old students.

Attendance for the comparable 1953-54 term was 317 with the increase being attributed to Public Law 550 vote enrolling to get under the Aug. 30 deadline for entitlement.



NEW ACCESS . . . Polyite Joe Geller obligingly poses for El Mustang photographer at the entrance to California boulevard off the southbound lane of the newly opened freeway. The northbound lane will be opened shortly upon completion of entry ways. (Photo by Jim Dearing.)



MY ACHING HAND! . . . Dr. Masateru Fukamachi, Japanese special student and board-splitter extraordinary, does not appear to be flinching, as the photographer stopped the action a split-second before contact. The burly judo expert developed this "parlor trick" in his native country. (Photo by Jim Dearing.)

Mustangs Agree In Favoring Corral's 'New Look'

The long-awaited self-servicing "super market style" system is now in effect at El Corral college store.

Manager Harry Winerth endorses the new system with some reservations, making allowances for time to erase disadvantages that may arise, as the system has only been in operation for a week. He points out that all taxes are included in the base price of each article, which allows for one single transaction at the cashier's desk.

Popular Change
All students interviewed were unanimous in their approval of the new system, particularly favoring the new manner of purchasing books.

"Wonderful system, almost completely eliminates jamming up when buying books. The same system was used successfully at Mt. San Antonio Junior college where I previously attended," says Richard Moorman, sophomore soils science major.

"I think it is better, articles are easier to find; don't have to wait for a clerk to wait on you," says Jim Degen, senior OH major.

"I like the self-service method much better than the old system,"

says Robert Turkington, freshman, All major.

The new system was installed to facilitate finding of desired articles of merchandise, particularly to allow students to browse in the book section; to save time in handling customers, to cut down on the number of clerking staff needed, thus cutting down on overhead expenses and permitting the store to show more profit.

Shopping Guide
Students unfamiliar with the new system will be able to quickly find the desired articles of merchandise if they will carefully read the printed signs liberally distributed about the store for their convenience. (Continued on page two)

Cal Poly Marksmen Outstanding At Summer Camp

"It's one of the best going-away presents I've ever received," said Maj. Howard Braunstein, second-in-command at California State Polytechnic college, when Fort Lewis headquarters announced that Cal Poly was one of only two western schools whose entire contingent of summer-camping cadets at Fort Lewis had qualified as "marksmen" or better with the U. S. Army's M1 rifle.

Major Braunstein, who had worked with the group of cadets as their rifle instructor because of his personal interest in marksmanship, had also just received his orders transferring him to Camp Kilmer, N. J., where he expects to receive a further assignment to European duty. Col. P. A. Loisel, Cal Poly's head of military science and tactics, will remain in command of the "branch-general" ROTC unit, which was used as a pilot group by the Army in establishing its West-Point-style training programs on the west coast.

Cal Poly cadets in the all-qualified group at Fort Lewis, included: Cadet Maj. David E. Johnson, Cadet 2nd Lt. Frank J. Rossi, Cadet 1st Lt. Vernon D. McNamee, Cadet 2nd Lt. Arnold A. Miller, Cadet 2nd Lt. Robert J. Beck, Cadet Capt. Edward R. Reins, Jr., Cadet Capt. Richard A. Heine, Cadet Lt. Col. Charles M. Shields, Cadet Capt. Benjamin M. Baychuk, Cadet Capt. James W. Loop, Cadet 2nd Lt. Stanley D. Hayer, Cadet 2nd Lt. Jerry A. Fialho.

Cadet 2nd Lt. Frank R. Shinn III, Cadet 1st Lt. John J. Hergert, Cadet 1st Lt. Ben H. Bear, Cadet 2nd Lt. Kirk L. Dushane, Cadet Capt. Joe B. Ramsey, Cadet Capt. Roger H. Stone, Cadet Maj. Dave B. Kingsbury, Cadet 2nd Lt. James K. Holmes, Cadet 1st Lt. Russell T. Smith.

All-Star Faculty Lineup Includes Noted Coaches

California's high school coaches throw their own all-star all-sports team into action here Sunday. With start of their two-week seventh annual California Workshop at Cal Poly they'll sit at the feet of a "faculty team" headlined by noted coaches in almost every sport known to the California scene.

Japanese Judoist To Columbia For Graduate Work

Dr. Masateru Fukamachi, 32-year-old Japanese bio science student, will leave Cal Poly this month to enter Columbia University to fulfill requirements for his M. S. degree in oral surgery. While attending Columbia, he will be sponsored by Gen. Douglas MacArthur. They became friends while Fukamachi was at Drake dispensary. Gen. MacArthur arranged for Fukamachi's entrance to Columbia.

Many Cal Poly students will remember Fukamachi's demonstration of breaking a two-by-four with his bare hand during a boxing exhibition last year.

Judo Expert
Fukamachi is proficient in Judo, Karate and Kendo, Japanese fencing. While in high school, Fukamachi says he broke the record for the number of "chins" in Japan by doing 46 straight. He has won three belts for Judo competition, consisting of the white, brown and black in which he has a number four rating.

Fukamachi says he already has his D.D.S. degree and will obtain his M.S. from Columbia so that he can return to Japan and teach the newer methods of oral surgery.

He plans to complete his M.S. degree requirements in one year and then remain at Columbia for a year of postgraduate work.

Fukamachi practiced for three years at the Camp Drake dispensary and Tokyo General hospital, where he was chief of oral surgery. Fukamachi says that while practicing in Japan, he trained over 30 different races in the UN forces involved in the Korean war. While at Drake dispensary, he says he treated over ten former Cal Poly students. His trip to the United States was made possible only by American sponsors, who were either former patients or friends he made while practicing in Japan, said Fukamachi.

Methods Archival
Many of the dentists in Japan, says Dr. Fukamachi, are still using old methods in oral surgery, and the new dentists must be taught the uses of newer equipment and techniques.

Fukamachi is a short, very muscular man weighing 152 pounds and standing 5 feet 1 inch tall. He is equally proficient as a dentist or a gymnast.

Besides being proficient in athletics, he is a good 3-cushion billiard player and a personal friend of Willie Hoppe and the Japanese woman 3-cushion champion, Miss Masako Katsuma.

"I hope to influence more young Japanese doctors to tour the United States, both to better equip themselves and to cement friendship relations between Japan and the United States," says Dr. Fukamachi.

Fukamachi's home town is Kamakura, Japan, which is the oldest city in Japan and is decorated with many Buddhist temples.

Spear Toss
While in high school Dr. Fukamachi threw the javelin 177.32 feet, which is an unbroken record for his school. He also holds a black three belt for Karate and a black four belt for Kendo.

Instructors Named For Eng. Vacancies

President Julian A. McPhee has announced the appointment of four new instructors for the rapidly-growing engineering division, now the third largest undergraduate engineering school in the western states.

The new faculty members, all with extensive experience in their engineering fields in addition to their academic backgrounds, include: mechanical engineering—Millard J. Potter; aeronautical engineering—W. J. Werback; electronic and radio engineering—Arthur J. Robertson; electrical engineering—Jack A. Peterson.

World War II Vet
Potter, a graduate of Illinois Institute of Technology with additional work at the University of Southern California, is a former plant engineer with Inter-

And during the final week, they'll overlap with the annual women's physical education workshop to study co-educational activities and coordination of boys and girls' physical education departments.

Officials of the sponsoring California Association for Health, Physical Education and Recreation say early registrations indicate that a record-breaking enrollment will represent practically every county in the state.

Sports Celebrities
The all-star faculty line-up includes:

Football—Stanford's Chuck Taylor; George Blean, C. K. McClatchy High School, Sacramento, who has coached only one losing season since coming to McClatchy in 1948; Homer T. Beatty, Bakersfield College, whose 1953 team won the Metropolitan and Junior Rose Bowl titles.

Basketball—Pepperdine's wizard "Duck" Dowell, former Modesto JC coach whose Pepperdine teams have won the CCAA four years in a row; Elam E. Hill, Edison High, Fresno; Ken Fagan, athletics director at Centennial High, Compton.

Baseball—Patty Cottrell, West Coast scout for the New York Yankees; Robert Fattig, Bellarmine High, San Jose; Terry Barton, Rosemead High, formerly at El Monte, and youth school staffer for the Cardinals, Pirates and Dodgers.

Track—USC's Jess Mortenson.

Swimming—American Red Cross's director of water safety Herb Barthels, who will emphasize strokes and mass instructional methods.

Physical Education Theory—C. Carson Conrad, school recreation consultant; Verna Landreth, chief, bureau of health, physical education and recreation, state department of education, Sacramento; Carl Gilmore, Redding High; Cap Harrison, Bakersfield.

Poly Represented
Tennis—Archery—Gene Smith, former Cal and Wimbledon tennis star; Myron Anderson, intramural director at Fresno State, whose archery team won the 1949-50 national telegraphic tournament, and he's a big game hunter with bow and arrow.

Gymnastics—Ed Carmichael, Los Angeles City college.

Public Relations for Sports—The Los Angeles Examiner's Ira Walsh, developer of his paper's widely-known "athletic sports section."

Golf—Morro Bay pro Al Lape and Cal Poly's Don Watts.

Officiating—Long Beach City College's Ed Waggoner.

As usual, says John "The Rock" Henley, Cal Poly News Bureau director, who has handled the workshop's campus arrangements for several years, a good percentage of the coaches and physical education directors will bring their families.

With Cal Poly's state-centered location and mild climate, the workshop has developed into one of the best-known of its kind in the nation.

Dead Letter Office Doing Big Business

Because many of the students have not been leaving forwarding addresses when they drop out of school for the summer, or check out of school permanently, Phil McMillan, Cal Poly postmaster, has had to forward over 150 pieces of mail from draft boards, government substations, police courts, and other very important mail.

Some of the mail has probably found its way to the dead letter office, because of no return address on the envelope, says McMillan.

At the close of the spring quarter he found it necessary to remove from the boxes all the mail that had not been picked up for at least two weeks. This mail had to be returned to the senders to prevent the boxes from becoming overcrowded and because of the post office regulations, McMillan added.

None of the vacationing instructors' mail has been returned, but many of the students will wish they had left a forwarding address, he concluded.

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CALIFORNIA STATE POLYTECHNIC COLLEGE

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Science Building, Library Served by Electronic Net

Cal Poly is being wired for sound, and the newest link will be between the library and the new science building, says Morris Garter, audio-visual instructor.

The system is being planned so that it can eventually link every permanent classroom, the bleachers, the auditorium and the administration building with the control room, and it will be possible to listen to transcriptions or live broadcasts or have lectures recorded for the instructor at his request.

No "Peeping Tom"

By the two-way system, if an instructor wishes to have his lecture recorded, he merely calls the central sound system control room and requests that it be done, explains Garter. This is by no means going to be an "electronic peeping tom," but an aid to the instructor, who will be able to criticize his own lectures in private or with the advice of other faculty members, if he wishes.

Special educational programs can be brought directly to the classroom either by recordings made earlier or by actual live broadcasts with the new audio equipment.

The central sound system control room is literally packed with professional receiving, transmitting, recording and transcription equipment plus the controls for the bells in the clock tower. The tower bells are connected with a cable to the control room and the clock mechanism is set with the Bureau of Standards Washington, D.C., transmitter on station WWV, says Garter.

The new science building will be wired so that any one or all of the classrooms can be served by

the central sound distribution system.

During Poly Royal several temporary circuits were wired to the bleachers and the auditorium and all official announcements were made over the central sound system. Eight separate department exhibits received continuous tape recorded music over the system, says Garter.

Sports Aid

Reports on games in progress across the nation can be heard from the central control room to the announcers' booth in the bleachers, adding to the enjoyment of sports spectators, adds Garter.

The group that has been spearheading the expansion of the audio communications system is the communications committee, of which Dean C. E. Knott is chairman. Other members of the committee include Morris Garter and Dale Andrews. The committee has been working in cooperation with the coordinator of the master building plan, Dean Harold Wilson.

Garter envisions the possibility of video being used in the classrooms, and this has been considered by the communications committee in the future expansion of the system. One advantage of using video in the classrooms would be elimination of the tedious business of moving students from their classrooms to a projection

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room, and the totting of a screen and projector around the campus by an instructor each time he wishes to show a film, says Garter. Each classroom could be made into a projection room, which would be quite a saving in time and film damage plus the cost of extra projectionists to run the projectors, explains Garter. Don't expect TV in the classroom soon, but it has been considered, he adds.

The "transit" conduit in the trench running up the hill behind the Adm. building will consist of four ducts housing the eleven pairs of wires of the audio system in two of the pipes. The other two are for the telephone network.

The science building will be connected to the system when it is completed.

St. Stephens Episcopal Church

Pismo and Nipome Streets

SUNDAY SERVICES

8:00 - 9:30 - 11:00

A.M.

Wed., Holy Days, 10:30 a.m.

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Special Bargains This Week in Collegiate Shirts
Wide assortment fancy stationery—for the girl friend
COME IN—BROWSE AROUND

The New El Corral College Store

AH Members Host Pozo 4-H Group

Some 75 San Luis Obispo 4-H club members and their leaders from groups as far away as Pozo got a firsthand taste of Cal Poly's learn-by-doing methods last week.

Members of Cal Poly's animal husbandry faculty and several of the AH majors gave demonstrations of how to prepare and show swine, sheep, dairy and beef animals. Then representatives 4-H'ers were given a chance to exhibit their grasp of some of the situations with a follow-up critique appraising their work.

At the sheep unit, for instance, instructor Howard Snider showed how a gilt should be washed, then put in the hoof-trimming crate, then have its ears and tail clipped, how it should be oiled and brushed—finally, the methods of handling which often make the difference between a winner and also-ran in the show ring.

Instructor Harmon Toone was in charge of the demonstration of dairy animals, using four heifers as a group on which the 4-H'ers, themselves, were put to work.

Instructor Richard Johnson was in charge of sheep and beef.

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Sun.—1:30-5:10-8:10
Mon.-Tues.—8:10
5-TECHNICOLOR CARTOONS—5
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Wed. Aug. 11
RANK NITE—WIN CASH
5-BIG FEATURES—5
ALL STAR CAST—TECHNICOLOR
"SCARLET SPEAR"
Shown—7:10:15
Richard Green, Nancy Kelly
"SUBMARINE PATROL"
Shown—8:40

Thurs. in Mat. Aug. 12-13-14
CINEMASCOPE
"Hell And High Water"



SURPRISE... This quartet was deeply chagrined when one test hole revealed water at 15 feet which subsequently rose to nine feet. The test was being conducted as a preliminary survey for the proposed new addition to Cal Poly's physical education facilities, an important step toward the long awaited advent of coeds. State department of public works officials concluded, that for foundations, deep concrete pylons will have to be sunk. In photo, left to right: Crewmen Bill Towell and Bill Campbell; Dr. Robert Mott, head of Cal Poly's physical education department; Russell M. Grossman, senior structural engineer, department of public works.

Instructors Named

(Continued from page one)
national Harvester's Chicago organization. He also served as an engineering officer for the air force in World War II and in Korea; worked with cost analysis of refinery equipment for Southwestern Engineering company, Los Angeles; and was a sales engineer for material moving equipment with the Stanley E. Morris company, Los Angeles.

Werback, with an undergraduate engineering degree from Michigan State and a master of science in engineering from the University of Michigan, spent two years with the navy in electronics and radio maintenance and for the past five years has been a design engineer for Consolidated-Vultee at San Diego.

Test Engineer
Robertson, with undergraduate and graduate degrees in physics from Indiana University, operated his own radio repair service at Bloomington, Ind., for several years was test engineer for Sunbeam Electrical Manufacturing company at Evansville, and has a similar position with RCA at Bloomington. He spent four years as a communications officer with the U. S. signal corps during which he planned and supervised installation of radio and radar systems. He is former faculty member of the University of Arizona at Tucson and for the past five years has been on the faculty at the University of Nebraska.

Peterson has undergraduate and graduate degrees in electrical engineering from the University of Idaho, is former test engineer for General Electric at Schenectady, N. Y., and comes to Cal Poly from the electrical engineering faculty at Gonzaga University, Spokane. An associate member of the American Institute of Electrical Engineers, he is a member of the AIKE's Spokane unit executive board.

Arizona Cattleman Is Impressed

Impressed by what he found on Cal Poly's 8,000-acre ranch style home campus, John M. Jacobs, Phoenix farmer and cattleman and chairman of the Arizona Board of Regents' agricultural committee, has returned home with what he called "an eyeful."

Jacobs visited Cal Poly to get a firsthand view of its learn-by-doing methods, particularly in the field of student projects.

"Some time ago," he explained, "I spent several days with Cal Poly's president Julian A. McPhee when he came to Arizona as a consultant. The influence of Cal

Poly's approach has shaped much of our thinking and my visit here certainly showed why there's vigor behind Cal Poly's philosophies in practice.

"I am firmly convinced that agricultural training has a practical requirement that cannot be ignored."

Arizona's Board of Regents is in charge of the state educational institutions at Tempe and Flagstaff as well as the university at Tucson.

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NEXT TOP HIT—WEDNESDAY, AUG. 11th

MARLON BRANDO—"ON THE WATERFRONT"

When John D. Rockefeller, Jr., at the age of 77 married a woman in her 50's, the new Mrs. Rockefeller was jokingly called his child bride. "What did he give her for a wedding present?" a newspaperman asked. "Blocks?"

"Yes," replied a friend. "Forty-ninth and Fiftieth—on Fifth Avenue."

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OH Head Releases Results Of Temperature Studies

Year-around commercial production of chrysanthemums in California received new encouragement this week when Howard C. Brown, head of the ornamental horticulture department at Cal Poly, released results of a series of greenhouse temperature studies. Brown has found ten commercial mum varieties that he says can be grown at a minimum night temperature of 50 degrees. This means, he explained, they could be grown in unheated greenhouses throughout the year in several sections of California. The state's mum growers have been operating largely for the fall market.

He listed the varieties as: Pinks—Masterpiece and Reward, spray types; J.W. Prince, standard type.

Whites—Illini Igloo, spray; Sterling and Monument, standards.

Yellows—Baccaro, Moonlight and Constellation, spray; Cream Mefo, standard.

(Spray types have several blooms on one stem. Standards are the familiar one-flower-per-stem mums traditional with football season.)

More Varieties
"Home gardeners," Brown pointed out, "will find a large number of even hardier varieties for their type of culture. But in some areas, these ten commercials will expand the home gardener's available choice and might be well worth trying."

Brown conducted his temperature studies under the glass at Ohio State University's famous graduate school of ornamental horticulture. He has just returned from a sabbatical year at Ohio State, where he completed work for his master of science in ornamental horticulture.

Ohio growers shared in the benefits of Brown's studies, too. Usual greenhouse temperature for mums in Ohio is a night minimum of 60 degrees.

"By growing varieties that will accept a minimum ten degrees lower," he says, "they can save almost half of their fuel."

Brown returned to his post at Cal Poly's home campus just in time to help move the learn-by-doing college's ornamental horticulture facilities to a new site on the 8,000-acre ranch-style campus. Part of the college's master plan, the move will clear a center-of-the-campus location for other new construction and will see the ornamental horticulturists re-located on the foothill slope of the Santa Lucia mountains, just under the giant white concrete "P" which is a familiar landmark to thousands of motorists traveling up and down U.S. Highway 101 between San Francisco and Los Angeles.

The new ornamental horticulture facilities will see a further expanded use of both lath and glass houses. Much of the landscaping and planting for the huge campus is done by the "O.H. majors." Cal Poly's department is also annual host to the spring Nurserymen's association.

California Leads

While Ohio nurserymen and their mid-western associates seem to be considerably ahead of California in many phases of soil management and use of available space, California is still ahead in merchandising and display, Brown reports.

"Ohio," he points out, "has the largest area under glass of any state in the nation. They raise tremendous quantities of vegetables under glass. Their greenhouse practices emphasize steam sterilization of all soil, greater production per square foot with no waste time between crops."

"Their costs, of course, are about two dollars per square foot of greenhouse per year, and out in California, with less heating, our costs are considerably less so we haven't given the same attention to intensive production under glass. Due to climatic conditions, even though California growers are inclined to overlook their greenhouses a part of the year, our overall production is greater."

Mid-western and eastern mum growers are really on the spot, says Brown. California outdoor mums reach their market November to May, then Florida mums take over from May to November. Both California and Florida mums sell for less than the glass-grown locals but the latter are generally of better quality since California mums are hit by occasional frost and Florida's mums by the wind.

"California roses are still superior to anything back there," he says, "because of our superior light intensity."

Nurseries in the east and mid-west are just beginning the practice of merchandising plants in cans and are stressing two-gallon containers instead of the one-gal-

lon featured in the west and south-west. They can make more satisfactory profit with larger extra-year plants, he explains. Emphasis there is on narrow leaf evergreens; in the west, it's broad leaf types. A quantity of the mid-western plants are secured from California in the one-gallon containers for "growing on." Cost of shipping from west to mid-west is about 25 cents per can.

Scientific Growth

Soil conservation practices in mid-western and eastern nurseries are farther advanced than those in the West, Brown believes. Much of the nursery stock is grown on terraces or contours and many of the nursery fields are completely tiled for good drainage. Crop rotation programs are geared toward keeping the soil built up with nursery crops for three or four years, then two years of rotation with small grains and sod.

One of the most widespread merchandising developments in the area has been the prepackaging of three-inch potted plants in cellophane packages for sale through supermarkets. Such garden varieties of mums, azaleas and hydrangeas.

Considerable pre-packaging of flowers for supermarket sales is also underway, he says. Ordinarily there are only six flowers in a cellophane package—generally roses, carnations, mums, or similar varieties.

"Growers," Brown says, "are finding they can thus get rid of short-stemmed material which florists normally wouldn't buy." While California nursery and

garden centers are still generally ahead of those in the mid-west and east from standpoint of scope and beauty, Brown found several instances where the mid-west had tried to "out-California-California."

"One big new center at Dayton," he recalls, "has even imported forty-foot six-by-twelve redwood beams for its California styling and used California redwood for its lathhouses. The work was done by a California architect."

Host to visiting couple: "We took one of those 'all-expense tours'—and that's just what it was."

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